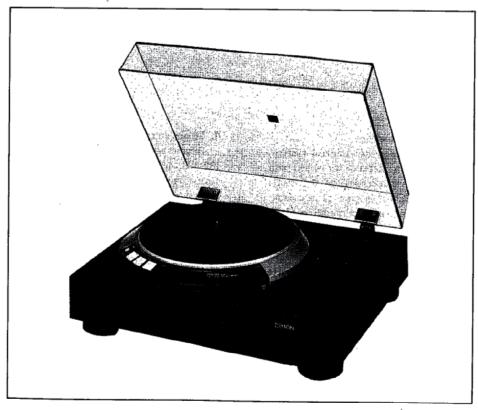
Hi Fi Component/Turntable

# DENON

# SERVO-CONTROLLED DIRECT DRIVE TURNTABLE

# MODEL DP-55K



Model DP-55K

#### TABLE OF CONTENTS

| FEATURES   |   |
|--|---|
| SPECIFICATIONS   | 2 |
| NAME OF PARTS AND OPERATION                                  | 2 |
| ADJUSTMENT   | 3 |
| PARTS LIST OF PS-150 POWER SUPPLY UNIT                       | 3 |
| PARTS LIST OF PS-154 POWER SUPPLY UNIT (Canadian model only) | 3 |
| PARTS LIST OF KU-385 MOTOR SERVO AMP UNIT                    |   |
| PARTS LIST OF PS-152 FUSE UNIT                               | 4 |
| PARTS LIST OF PS-155 FUSE UNIT (Canadian model only)         | 4 |
| TO CHANGE THE OPERATIONAL VOLTAGES                           | 4 |
| MOTOR DRIVE CIRCUIT DIAGRAM                                  |   |
| PRINTED CIRCUIT BOARD  | 6 |
| EXPLODED VIEW OF MAIN PARTS                                  | 7 |
| PARTS LIST OF EXPLODED VIEW                                  | R |

### **FEATURES**

#### 1. Magnetic recording for speed detection

DENON originated this unique motor control system, which uses a magnetic recording method for speed and phase detection. 1000 pulses are recorded on the inside rim of the platter with the highest degree of accuracy. This creates a high detecting frequency eliminating phase lagging of the servo system, and accordingly over-shoot, wow and flutter.

# 2. 99.998 % accurate speed: Phase-controlled by quartz oscillation

The rotation speed is highly stabilized by a timing clock based on quartz oscillation. This is very stable against changes of temperature or time. By the use of the Phase-locked loop method, the speed is virtually unaffected by load or supply voltage fluctuations.

#### 3. Bidirectional servo and electronic brake

The bidirectional servo delivers quick, smooth starts and speed changes. Smooth stopping is accomplished by the electronic brake.

#### 4. Strobe scope lit synchronously to quartz oscillation

Regardless of the difference of the rotational speed (33-1/3, 45) or the power frequency (50 Hz, 60 Hz), the strobe lamps are lit by an accurate frequency of quartz crystal oscillator. Only one strobe pattern is required and is, therefore, easier to read.

### 5. Replaceable tonearm board

The tonearm board can be detached by removing 4 screws. It is convenient not only for installation but for changing tonearms mounted on extra boards.

#### 6. Turntable mat designed to damp vibration

The turntable mat has been developed through vibration analysis through laser holography. It damps the vibration of the disc to improve clear sound reproduction.

#### **SPECIFICATIONS**

Phono motor

Direct drive AC motor Drive system:

33-1/3 rpm, 45 rpm. Speeds: Wow and flutter: 0.015 % wrms (see note)

S/N: Rise time: More than 78 dB (DIN-B) Less than 2.0 sec. (33-1/3 rpm)

Platter:

Diecast aluminium 300 mm diameter

Moment of inertia, 200 kg-cm<sup>2</sup> (0.2 Nm<sup>2</sup>)

including turntable mat

Motor:

AC servo motor

Speed control system:

Speed servo control by frequency detection system combined with phase control system with reference to quartz crystal

oscillator.

Load influence: 0 % at out-most groove with tracking

force of 100 g (0.98 N)

Speed deviation: Less than 0.002 % Brake system:

Electronic brake

Note: Measured by DENON's method using magnetic pulse wheel.

#### General

Rated voltage and frequency are shown Power supply:

on the rating label at the back of cabinet and/or on the label attached to the power

supply cord.

Power consumption:

Approx, 18 W

Dimensions:

510 W x 425 D x 185 H mm

(Dust cover closed)

Weight:

Approx. 13 kg

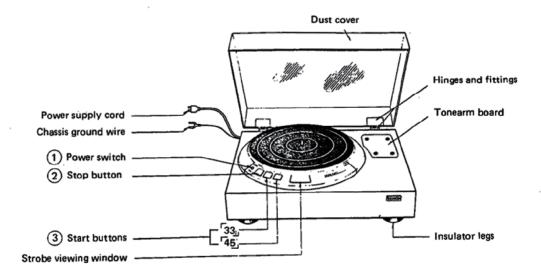
Tonearm board: Replaceable

All specifications and outward appearance are subject to alteration for improvement without notice.

#### Changing the rated frequency

This turntable can be used compatibly on power supply frequencies of 50 Hz and 60 Hz.

# NAMES OF PARTS AND OPERATION



#### 1 Power switch

Use to turn the power on (\_\_\_) and off (\_\_\_). The power is turned on when the switch is pressed. The lamps in the stop button and in the strobe scope light. When pressed again, the power is turned off and the lamps are turned off.

#### (2) Stop button

Use to stop turntable platter rotation. When pressed, the lamp in the stop button lights and the platter stops.

#### (3) Start buttons

Use to start turntable platter rotation. When one of the buttons is pressed, the lamp in the button lights and the platter starts rotating at the specified speed.

#### Press:

33 for a 33-1/3 rpm record, and 45 for a 45 rpm record.

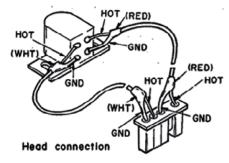
#### **ADJUSTMENT**

Adjustment of spacing between detection head and platter:

Adjust the spacing so that it may represent abt. 0.15 mm between the magnet-coated surface of platter and detection head. Depending upon the degree of the spacing, the condition of stop will vary. Consequently, adjustment should be made in such a way that the platter without the turntable sheet on glides slightly forward when stopping.

#### NOTE:

When the magnetic head is replaced, make sure that the terminal connection is as shown in the figure below. Otherwise, the platter may turn reversely.



2. Confirming the regulator voltage:

Since the power source employs a fixed voltage 3-terminal IC, confirm that the output voltage of IC5 and represents 5V±0.2V. (No adjustment is feasible.)

#### 3. RPM Adjustment:

(1) Pull out the lead wire through test points 39 and 41 (3P connecting pin) on motor servo P.C. Board KU-385 and connect 39 to positive side of the oscilloscope while 41, earth side.

#### **PARTS LIST**

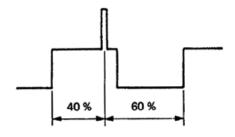
#### **PS-150 POWER SUPPLY UNIT**

|                         | Ref.<br>No.          | Part No.    | Part Name            | Remark      |  |  |  |
|-------------------------|----------------------|-------------|----------------------|-------------|--|--|--|
|                         | SEMI CONDUCTOR GROUP |             |                      |             |  |  |  |
|                         | TR1                  | 2710141008  | 2SA768               |             |  |  |  |
|                         | D1                   | 2760218017  | HZ-9A-2              |             |  |  |  |
|                         | D2                   | 2760049008  | 1\$2076              |             |  |  |  |
|                         | RESI                 | STOR GROUP  |                      |             |  |  |  |
|                         |                      |             |                      | Carbon film |  |  |  |
|                         | R1                   | 2412078000  | RD14B2E271J          | 270Ω ¼W     |  |  |  |
|                         | R2                   | 2412100004  | RD1482E222J          | 2,2KΩ ¼W    |  |  |  |
|                         | R3                   | 2410161003  |                      | 100Ω ½W     |  |  |  |
| Δ                       | 53.4                 | 2410163001  | RO1AB2H121J          | 120g W.     |  |  |  |
|                         | CAPA                 | CITOR GROU  | IP .                 |             |  |  |  |
|                         |                      |             |                      | Ceramic     |  |  |  |
|                         | C1                   | 2531026001  | CK45F1H473Z          | 0.047μF 50V |  |  |  |
|                         |                      |             |                      | Oil         |  |  |  |
| Δ                       | 02.08                | 2518001023  | CP05C=HAC473MC       | 0:0470F     |  |  |  |
|                         |                      |             | upe if the UP        | 450VAC      |  |  |  |
|                         | OTHER PARTS GROUP    |             |                      |             |  |  |  |
| Δ                       |                      | 2228356000. | POWER SUPPLY P.C.B.  |             |  |  |  |
| $\Delta$                |                      | 2398001007  | LINE FILTER COIL     | 200         |  |  |  |
|                         |                      | 2050082034  | 3P WRAPPING TERMINAL |             |  |  |  |
| $\frac{\wedge}{\wedge}$ |                      | 2061036008  | FUSE                 | 0.63A       |  |  |  |

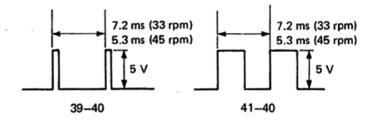
- (2) Adjust the speed to 45 RPM; observing the waveform by means of an oscilloscope, Adjust VR2 so that the pulse may occur at the 40% position from the left of the pulse side of the half-cycle in a cycle of a square wave as shown in the figures below.
- (3) Subsequently adjust VR1 for 33 RPM in the same manner as in the case of 45 RPM so that the pulse may be positioned at 40% of the square wave cycle.

#### (Reference)

Following are the waveforms of test points 39-40 and 41-40: (Test Point 40 is grownd.)



(Reference)
Following are the waveforms of test points 39–40 and 41–40:



#### PS-154 (Canadian model only)

| Ref. No.      | Part No.    | Part Name      | Remarks      |
|---------------|-------------|----------------|--------------|
| SEMI CON      | DUCTOR GROU | IP             |              |
| TR1           | 2710141008  | 2SA768         |              |
| D1            | 2760218017  | HZ-9A-2        |              |
| D2            | 2760049008  | IS2076         |              |
| RESISTOR      | GROUP       |                |              |
|               |             |                | Carbon film  |
| R1            | 2412078000  | RD14B2E271J    | 270Ω ¼W      |
| R2            | 2412100004  | RD14B2E222J    | 2.2KΩ ¼W     |
| R3            | 2410161003  | RD14B2H101J    | 100Ω ½W      |
| 984           | 2410163001  | RD14B2H121J#5  | 1260 WW      |
| CAPACITO      | R GROUP     |                |              |
|               |             |                | Ceramic film |
| C1            | 2531026001  | CK45F1H473Z    | 0.047µF 50V  |
| C2 C3         | 2568019010  | CF93B2BAC473M  | 0.047#F      |
|               |             |                | 125VAC       |
| OTHER PA      | RTS GROUP   |                |              |
|               | 2228356000  | POWER SUPPLY P | E.B. 1       |
| A Property    | 2398001007  | LINE FILTER CO | L properties |
|               | 2050082034  | 3P WRAPPING TE | RMINAL       |
| 5232220VVV653 | EP-/2661    | FUSE           | 630mA 250V   |

## **KU-385 MOTOR SERVO AMP UNIT**

|                | Ref. No.                  | Done No.                 |  |  |
|----------------|---------------------------|--------------------------|--|--|
|                |                           | Part. No.                | Part Name  | Remark   |
|                | SÉMI COND                 | UCTOR GROU               | JP   |  |
| - 1            | IC3                       | 2620186001               | SC3120A  |  |
|                | IC4                       | 2630075005               |  |  |
| - 1            | IC1, 2                    | 2630094028               |  |  |
| - 1            | IC5<br>IC7                | 2680009005<br>2620089001 | FS-7805M<br>HD7426P  |  |
|                | TR7, 12                   |                          | AND PROPERTY OF THE PARTY OF TH | and a superior superior of the |
|                | TR8, 11, 15               | 2710113007               | 2SA999 (F)   | Surfice that I was all   |
|                | TR17                      | 2720025004               |  |  |
|                | TR16, 18                  | 2720046009               | 2SB561 (C)   |  |
| . 1939         | TR1~6, 14                 | 2730021043               | 2SC458 (D)   | TO VICE PROJECT, AND THE COMMENTS AND THE COMMENTS AND THE   |
|                | TH10, 13                  | 2730196004               | which are reserved from the time time a look the fell  |  |
|                | TR19<br>D24 27            | 2730111021               | 2SC1213 (C)  |  |
|                | D23,26                    | 2760057029               | RB154  |  |
|                | D1~22,                    | 2760049008               | 1\$2076  |  |
|                | 41~44                     |                          |  |  |
| 1              | D29~32                    | 2760291005               | V06A   |  |
| 1 -            | D45                       | 2760002003               | 1N60   |  |
| 1              | D37~40                    | 3939041001               | LN81RP (HL)  | LED  |
| F              | RESISTOR G                | ROUP                     |  |  |
|                |                           |                          |  | Carbon film  |
|                | R67, 69                   | 2410266005               | RD14B2E100J  | 10ΩJ ¼W  |
| 1              | R105<br>R101, 102         | 2410270004               | RD14B2E150J  | 15ΩJ ¼W  |
| 1              | R66, 77                   | 2410280007<br>2410286001 | RD14B2E390J<br>RD14B2E680J   | 39ΩJ ¼W  |
| - 1            | R68,78,106                | 2410290000               | RD1482E101J  | 100ΩJ %W   |
| - 1            | R85                       | 2410300000               | RD14B2E271J  | 270ΩJ ¼W   |
| F              | R72                       | 2410302008               | RD14B2E331J  | 330\Oliver 1 %W  |
| F              | R92~94                    | 2410304006               | RD14B2E391J  | 390ญ %W  |
| 1              | R86                       | 2410306004               | RD14B2E471J  | 470ΩJ ¼W   |
|                | R5, 13                    | 2410308002               | RD14B2E561J  | 560ΩJ %W   |
|                | ₹88<br>₹82~84             | 2410314009<br>2410318005 | RD14B2E102J  | 1KΩJ %W  |
| - 1            | R18, 25, 32,              | 2410318005               | RD1482E152J<br>RD1482E222J   | 1.5KΩJ ¼W<br>2.2KΩJ ¼W   |
|                | 41, 42, 64,               | 2410022004               | 110140212223   | 2.21363 /444   |
|                | 76, 79, 80,               |                          |  |  |
|                | ,                         |                          |  |  |
| F              | 319, 23, 24,              | 2410326005               | RD14B2E332J  | 3.3KΩJ ¼W  |
| ١.             | 28, 70, 71                |                          |  |  |
| "              | R20, 45, 48, 51           | 2410328008               | RD14B2E392J  | 3.9KΩJ ¼W  |
| l <sub>B</sub> | 31, 9, 54,                | 2410330009               | RD14B2E472J  | 4.7KΩJ ½W  |
|                | 58, 89, 90,               | 2410330003               | 110140204723   | 4./1363 7444   |
|                | 91                        | , '                      | ì  | .  |
| R              | R6, 14                    | 2410332007               | RD1482E562J  | 5.6KΩJ 1/4W  |
| 1 1            | 122                       | 2410334005               | RD14B2E682J  | 6.8KΩJ ¼W  |
|                | 26, 39, 43,               | 2410338001               | RD14B2E103J  | 10KΩJ ½W   |
|                | 46, 47, 49,               |                          |  |  |
|                | 50, 52, 53,<br>55, 65, 75 |                          |  |  |
|                | 95, 96                    | 2410342000               | RD14B2E153J  | 15KΩJ ½W   |
|                | 127                       | 2410344008               | RD14B2E183J  | 18KΩJ %W   |
| R              | 29, 35, 37,               | 2410346006               | RD14B2E223J  | 22KΩJ ¼W   |
| R              | 2, 7, 10,                 | 2410354001               | RD14B2E473J  | 47KΩJ ¼W   |
|                | 15, 38,                   | 1                        |  | İ  |
|                | 103, 104                  | 044000000                |  |  |
| - 1            | 3, 11, 33,<br>34, 40      | 2410362006               | RD14B2E104J  | 100KΩJ %W  |
| 1              | 34,40                     | 2410366002               | RD14B2E154J  | 150KO   10W  |
|                | 156, 67                   | 2410370001               | RD14B2E154J  | 150KΩJ ¼W<br>220KΩJ ¼W   |
|                | 4, 12, 57                 | 2410378003               | RD14B2E474J  | 470KΩJ ½W  |
|                | 21                        | 2410759004               | RD14B2E564J  | 560KΩJ ½W  |
| L              |                           | 105 1111                 |  |  |

# **PS-152 FUSE UNIT**

| Ref. No. | Part No.   | Part Name   | Remarks |
|----------|------------|-------------|---------|
|          | 2228374105 | FUSE P.C.B. |         |

|     | Ref. No.                                     | Part. No.                | Part Name                          | Remark   |
|-----|--|--------------------------|------------------------------------|--|
|     | R62  | 2410761005               | RD14B2E684J                        | 680KΩJ ¼W  |
|     | R63, 73                                      | 2410765001               | RD14B2E105J                        | 1MΩJ ½W  |
|     |  |                          |                                    | Metal film   |
|     | R60  | 2452180000               | RN14K2E821F                        | 820ΩF ¼W   |
|     | R97  | 2452199004               |                                    | 4.7KΩF ¼W  |
|     | R98  | 2452214002               |                                    | 20KΩF ½W   |
|     | R61  | 2452221008               |                                    | 39KΩF ½W   |
|     | R59  | 2452225004               | RN14K2E563F                        | 56KΩF ¼W   |
| Α   | and the section and considerable sections in | encorre a vientimati     | THE R. P. LEWIS CO., LANSING MICH. | Metal oxide  |
| 么   | R74,81                                       | 2440005029               | RS14B3A010JNB                      | and the resemble to the second transfer that   |
|     |  |                          |                                    | Variable resistor  |
|     | VR1, 2                                       | EP-5462-13               | SOLID VOLUME                       | 10ΚΩΒ  |
|     | CAPACITOR                                    | GROUP                    |                                    |  |
|     |  |                          | T                                  | Electrolitic   |
|     | C2, 7, 45                                    | 2544009002               | CE04W1A470=                        | 47µF 10V   |
|     | C4, 5, 9, 10,                                | 2544015009               | CE04W1C100=                        | 10μF 16V   |
|     | 17   |                          |                                    |  |
|     | C28  | 2544054002               | CE04W1C220=                        | 22µF 16V   |
|     | C27, 29                                      | 2544018006               | CE04W1C101=                        | 100µF 16V  |
|     | C31  | 2544086009               | CE04W1E222=                        | 2.200µF 25V  |
|     | C1, 6, 22, 46                                | 2544043000               | CE04W1HR47=                        | 0.47µF 50V   |
|     | C25, 26                                      | 2544044009               | CE04W1H010=                        | 1μF 50V  |
|     |  |                          |                                    | Film   |
|     | C18  | 2551062003               | CQ93M1H152K                        | 0.0015µF 50∨   |
|     | C50  | 2551064001               | CQ93M1H222K                        | 0.0022µF 50V   |
|     | C14, 15                                      | 2551070008               | CQ93M1H682K                        | 0.0068µF 50V   |
|     | C16  | 2551121038               | CQ93M1H123K                        | 0.012µF 50∨  |
|     | C40, 41                                      | 2551076002               | CQ93M1H223K                        | 0.022μF 50V  |
|     | C13  | 2551122011               | CQ93M1H563J                        | 0.056µF 50V  |
|     | C19  | 2551084007               | CQ93M1H104K                        | 0.1μF 50V  |
|     | 000 04 40 40                                 | 2521004007               | 01/4504114001/                     | Ceramic  |
|     | C20,21,48,49<br>C42~43                       | 2531004007<br>2531009002 | CK45B1H102K<br>CK45B1H682K         | 0.001µF 50V<br>0.0068µF 50V  |
|     | C23, 24                                      | 2531009002               | CK45F1H103Z                        | 0.0058µF 50V   |
|     | C30,   | 2531027000               | CK45F1H104Z                        | 0.1 µF 50V   |
| - 1 | C11, 12                                      | 2533619005               | CC45SL1H470J                       | 47PF 50V   |
|     | V,,,   | 2555015505               | CO455E1114703                      | Metalized Film   |
| Δ   | C35  | 2568013029               | CF99=2DAC305J                      |  |
|     | OTHER PAR                                    |                          | AND ASSESSMENT OF THE BUILDING AND | PROCESS OF STREET, STR |
| 1   | JITTER FAR                                   |                          |                                    |  |
| -   |  | 2228179203               | SERVO AMP P.C.E                    | 3  |
|     |  | 4178020400               | HEAT SINK                          | EC 300511  |
|     | SK2  | 4178050001<br>FEP0429K   | HEAT SINK                          | FS-7805M   |
| 4   | SINC SHEET STATES                            | 2618007008               | SPARK KILLER                       | OMALI-   |
|     |  | 2050087026               | CRYSTAL<br>2P WRAPPING             | 9MHz   |
|     |  | 2030007020               | TERMINAL                           | TRANS Pri.   |
|     | 1  | 2050082047               | 4P WRAPPING                        | MAIN P.C.B   |
|     |  | _000002047               | TERMINAL                           | ↔ S.W P.C.B  |
|     |  | 2058010008               | 6P WRAPPING                        | 33/45.   |
|     | l  |                          | TERMINAL                           | STOP LAMP  |
|     | . [  | 2035622008               | 3P MINI CONNE                      | TEST POINT   |
|     |  |                          | PIN                                | . 20. 1 01141  |
|     | I  | FEP12802                 | 3P MINI CONNE                      | MOTOR  |
|     | 1  |                          | PIN                                |  |
|     | .[   | FEP12803                 | 4P MINI CONNE                      | HEAD   |
|     |  |                          | PIN                                |  |
| -   |  |                          |                                    |  |

**∆WARNING**:

Shaded aprts are important to SAFETY. Replace always with same type, same rating.

# PS-155 FUSE UNIT (Canadian model only)

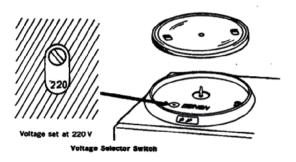
| Ref. No. | Part No.   | Part Name   | Remarks |
|----------|------------|-------------|---------|
|          | 2228374105 | FUSE P.C.B. |         |

#### TO CHANGE THE OPERATIONAL VOLTAGES

#### A. Model whose voltage selector is accessible by the user: (Multi-voltage model)

This equipment has been preset for a line voltage of 220V. Before inserting the power plug, please check if this voltage corresponds with the line voltage in your area. If it does not, be sure to adjust the voltage selector switch to the proper setting before operating this equipment. The voltage selector switch is located on the base surface below the turntable platter. Simply insert a screw driver into the voltage selector switch and turn it in either direction so that the desired voltage marked on the switch is positioned in the window.

Damage of equipment because of missetting of voltage selector is not within the limit of **DENON** liability.



Set the voltage selector in accordance with the nominal power supply voltage as shown in the table.

| ACTUAL (nominal) VOLTAGE (volt) | VOLTAGE SETTING |
|---------------------------------|-----------------|
| 110<br>115<br>120               | 120             |
| 200                             | 200             |
| 210<br>220                      | 220             |
| 230<br>240                      | 240             |

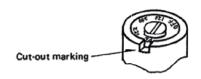
Table 1. Voltage Setting

#### B. Models whose voltage selector is not accessible by the user:

(Australian, UK and Canadian models)

#### 1 Australian and UK models

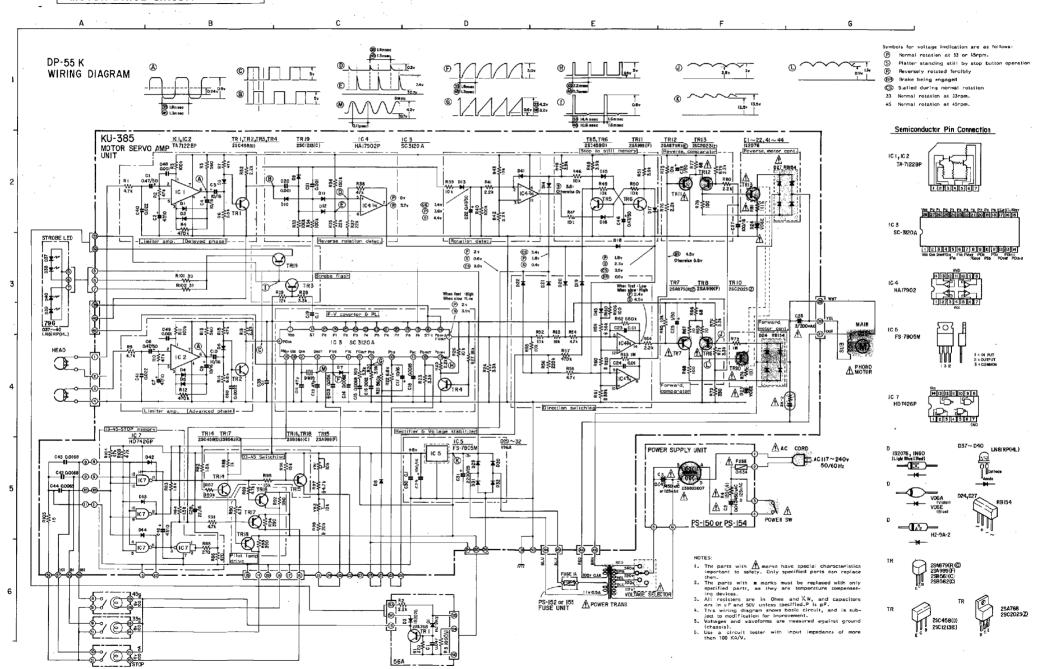
Although these models are provided with the voltage selector being preset to 240V, it cannot be operated by the user since it is blinded by the shield cover. However, in case the change of voltage setting is necessary, insert a screw driver into the voltage selector and turn it in either direction so that the desired voltage indicated on the selector is positioned at the cut-out marking as shown in figure below.

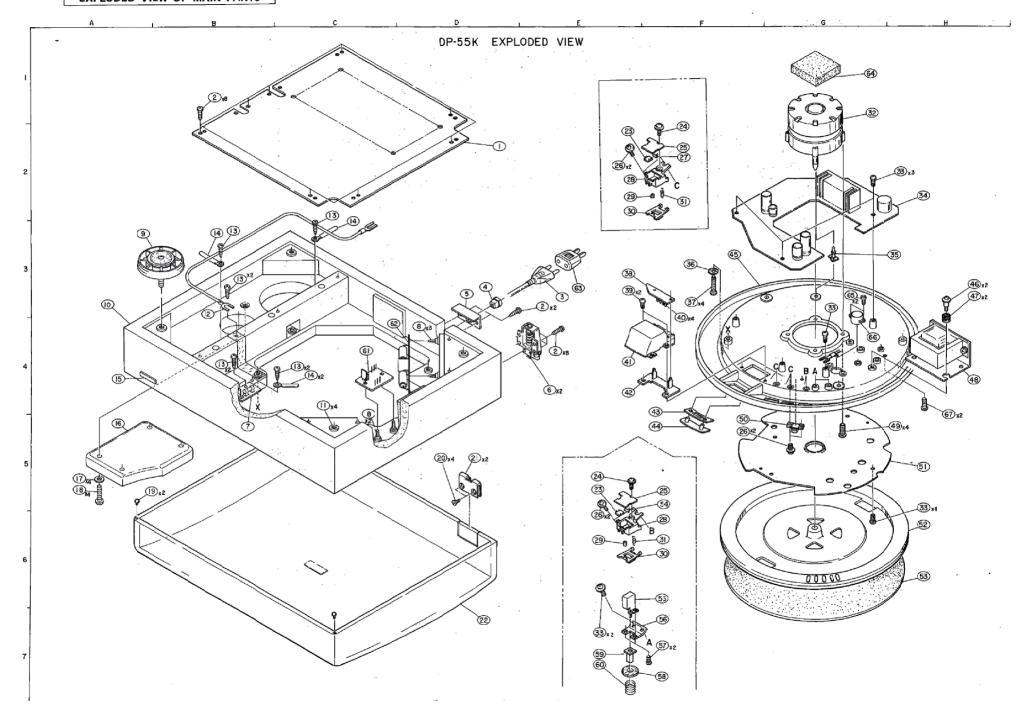


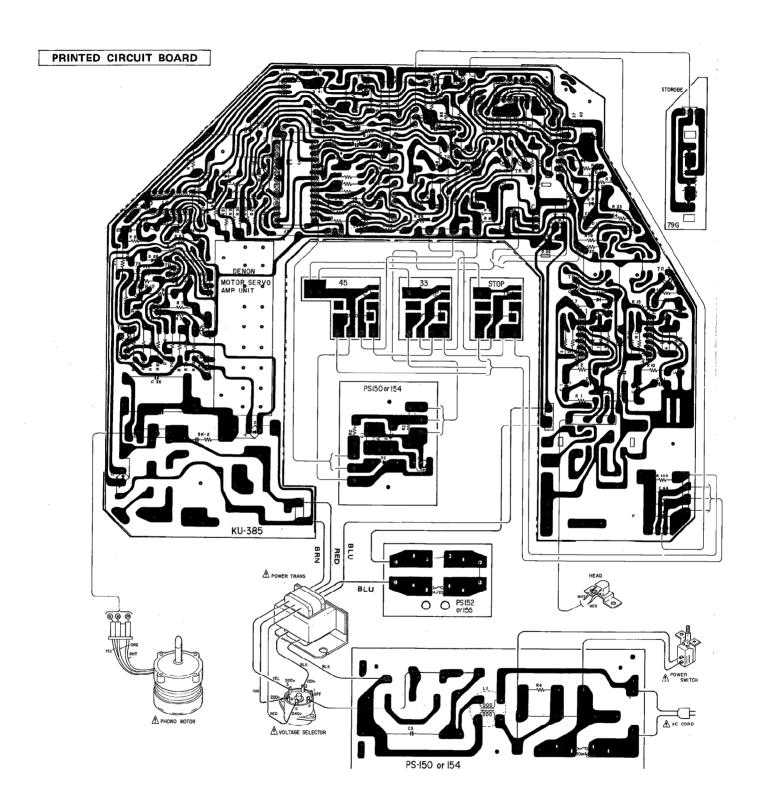
#### 2 Canadian model

Although this model is provided with the voltage selector being preset to 120V, it cannot be operated by the user since it is blinded by the shield cover.

Since the Canadian model must comply with the CSA standards, the components directly connected to the power line are CSA recognized having 125VAC rating. Therefore, DO NOT change the voltage setting.







## PARTS LIST OF EXPLODED VIEW

|   | Ref. No.  | Part No.   | Part Name   | Remarks  |
|---|-----------|--|---|--|
|   | 1         | 1058062002   | BOTTOM PLATE  |  |
|   | 2         | 4733309032   | 3x16 CBTS (1)   |  |
| ⚠ | 3         | 2006019307   | VAGIROWER CORID   | Australian model   |
|   |           | 2062019008   | AC POWER COAD   |  |
|   |           | 2062026006   | ACPOWER CORE  | PUR TRUET  |
|   |           | 2062002031   | TO SHEET THE SECRETARY OF THE SECRETARY | Carendinder  |
| ⚠ | 4         | MD-2982H   | e Eulagung  | Masteria (1904)  |
|   |           | MD-3802  | BUSHING   | (salashar taqida)  |
|   |           | <b>电影中国的电影和电影的</b>   | BUSHING   | egjer tid sa ti  |
| Δ | , b       | THE STATE OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY. | BUSHING PLATE IF HE   | AND EXPLORED THE REAL PROPERTY.  |
|   | 6         | FTS0700H   | BUSHING PLATE (G)   | Other interests 200  |
|   |           | PS-165   |   | , větnadela a je deli:   |
| Δ |           | PS-152   |   | Some interests, sa   |
|   | 8         | 4498041004   | C.B. LOCKING  | enterestration of the second o |
|   |           |  | SUPPORT   |  |
|   | 9         | 1048024403   | INSULATOR   |  |
|   | 10        | 1018225203   | CABINET SUB ASS'Y   |  |
|   | 11        | FSC0102  | SPECIAL NUT (A)   |  |
|   | 12        | FEP1206  | EARTH WIRE  | 4-   |
|   | 13<br>14  | 4730406019<br>EP-4772  | 3x12 CBRTS (1)<br>CORD HOLDER   |  |
|   | 15        | FPR04641   | DENON MARK  |  |
|   | 16        | 1018227007   | ARM BOARD   |  |
|   | 17        | FWA0061  | WASHER  |  |
|   | 18        | 4714414030   | 4x35CTS   |  |
|   | 19        | 4628006107   | BUSHING   |  |
|   | 20        | 4712404055   | 4x8 CFS   |  |
|   | 21        | FIS0701  | HINGE PLATE   |  |
|   | 22        | FMD0526J   | DUST COVER ASS'Y  |  |
|   | 23        | 2129059008   | PUSH SWITCH   |  |
|   | 24        | 4700026005   | 3x8 CBRTS W   |  |
|   | 25        | KU-390   | SWITCH UNIT   |  |
|   | 26<br>27  | 4700010011<br>3930047033                                       | 3x8 CPS W<br>PILOT LAMP (GREEN)   |  |
|   | 28        | 4498037102   | SW, HOLDER  |  |
|   | 29        | 1298014108   | BUTTON CUSHION  |  |
|   | 30        | 1138101100   | PUSH BUTTON   |  |
|   | 31        | 4638009000   | 2F, COIL SPRING   |  |
| ⚠ | ,32       |  | MOTOR A   |  |
|   | 33        | 4733800010   | 3x8 CBTS  |  |
|   | 34        | KU-385   | MOTOR SERVO   |  |
|   | 35        | 4498046009   | C.B.L. SUPPORT  |  |
|   | 36        | 4753202009   | 4-TW  |  |
|   | 37        | 4713411018   |   |  |
|   | 38        | KU-385   | STROBE LED P.C.<br>BOARD  | A part of<br>KU-385  |
|   | 39        | 4733800023   | 3x10 CBTS   | 1.0-365  |
|   | 40        | 3939041001   | LED   |  |
|   | 41        | 1468058208   | MIRROR CASE ASS.  |  |
|   | 42        | 4498038004   | LED. HOLDER   |  |
|   | 43        | 4148022001   | BLIND   |  |
|   | 44        | 1468051001   | STROBO, WINDOW  |  |
|   | 45        | 4468078104   | MOTOR BOARD ASS'Y   |  |
|   | 46        | 4770192008   | SPECIAL SCREW   |  |
|   | 47        | 4620027003   | RUBBER BUSH<br>POWER TRANS  |  |
| 4 | 48:<br>49 | 4713406010   | 4×12 CBS  |  |
|   | 50        | 3918425004   | MAGNETIC HEAD ASS.  |  |
|   | 51        | 4148126004   | SHIELD PLATE  | Multi-voltage  |
|   |           |  |   | model  |
|   |           | 4148102109   | SHIELD PLATE  | Other models   |
|   | 52        | 4218074206   | RECORDED  |  |
|   | 53        | 4218094040   | TURNTABLE<br>RUBBER SHEET   |  |
|   | 53<br>54  | 3930047046   | PILOT LAMP (WHITE)  |  |
|   | <u> </u>  | 20220.7010   |   |  |
|   |           |  |   |  |

| Ref. No.      | Part No.   | Part Name           | Remarks          |
|---------------|------------|---------------------|------------------|
| <u>^</u> 265€ | 2129136028 | POWER SWITCH        | Challand or      |
|               | 2129136015 | POWER SWITCH:       | arius andre      |
| 56            | 4418532108 | PUSH SW. BRACKET    |                  |
| 57            | 4713303016 | 3×6 CBS             |                  |
| 58            | 4618094006 | CUSHION             |                  |
| 59            | 1138100101 | PUSH KNOB           |                  |
| 60            | 4638606005 | SPRING              |                  |
| 61            | PS-150     | REGULATOR P.C.      | A part of        |
|               |            | BOARD               | PS-150 or 154    |
| 62            | PS-154     | POWER SUPPLY UNIT:  |                  |
|               | PS-150     | POWER SURBLE CONTRA | alonbe processor |
| 63            | 2033902005 | PLUG ADAPTOR        |                  |
| 64            | 4618067004 | PAD                 |                  |
| 65            | 4713203019 | 2.6x6 CBS           |                  |
| <u>/</u> 66   | 2123315010 | VOLTAGE SELECTOR    |                  |
| 67            | 4770031020 | 4×20 CBS (R)        |                  |

★ WARNING: Shaded parts are important to SAFETY.

Replace always with same type, same

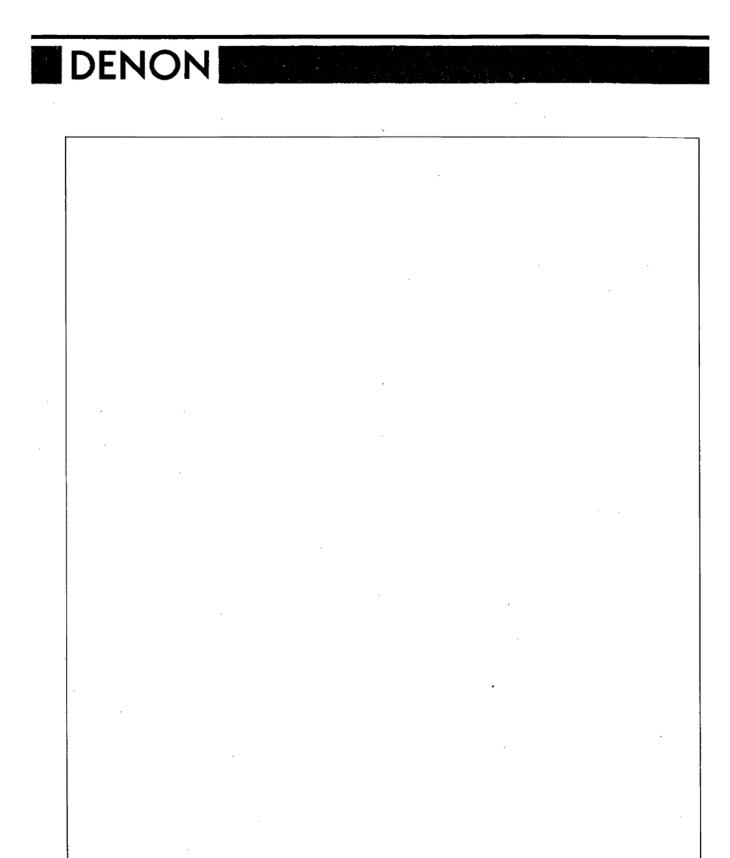
rating.

#### **ACCESSORIES GROUP**

| Part No.   | Part Name          | Remark |
|------------|--------------------|--------|
| 5298006002 | 45 ADAPTOR         |        |
| 4218094040 | RUBBER SHEET       |        |
| 2033902005 | PLUG ADAPTOR       |        |
| 5158017005 | CABINET TAG        |        |
| 5118152007 | INSTRUCTION MANUAL |        |
| 5138146006 | RATING SHEET       |        |
| 5158036109 | CAUTION SHEET      |        |
| 5158030008 | PRESET LABEL       |        |
|            |                    |        |
|            |                    |        |
|            |                    | ·      |

# **CARTON CASE GROUP**

| Part No.   | Part Name   | Remark                           |
|--|---|----------------------------------|
| 5018174004<br>FPC0302H<br>5058092007<br>5058006019 | CARTON CASE ASS'Y<br>PACKING<br>LAMINATE ENVELOPE<br>ENVELOPE | 600x 700mm<br>255x380mm<br>0.03t |
| 5058023018   | ENVELOPE  | 350x640mm<br>0,05t               |



# NIPPON COLUMBIA CO., LTD.

No. 14-14, 4-CHOME AKASAKA, MINATO-KU, TOKYO JAPAN

TEL: 03-584-8111 TLX: JAPANOLA J22591